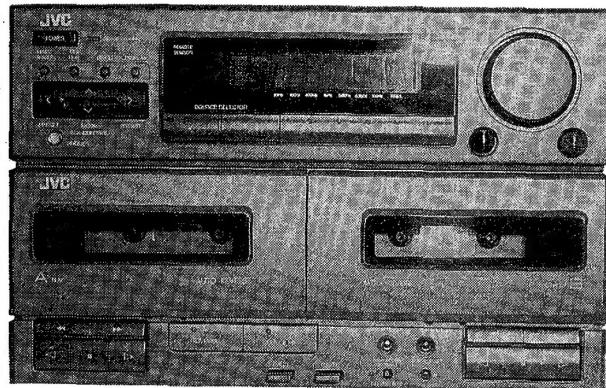


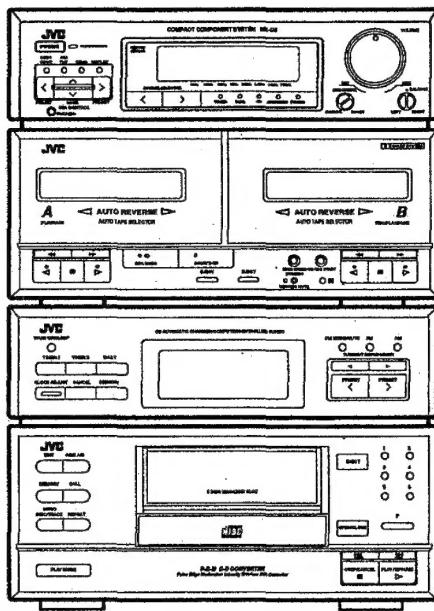
JVC

STEREO RECEIVER

CA-MXC5BK

UNIT No. DX-MXC5BK





Thank you for purchasing this JVC Compact Component Stereo System. We hope it will be a valued addition to your home, giving you years of enjoyment.

Be sure to read this instruction manual carefully before operating your new stereo system. Here you will find all the information you need to set up and use the system.

For questions that cannot be answered in the manual, please contact your dealer.

IMPORTANT CAUTIONS

1. Installation of the unit

- Select a place which is level, dry and neither too hot nor too cold (between 5°C and 35°C).
- Leave sufficient distance between it and your TV.
- Do not use it in a place subject to vibrations.

2. Power cord

- Do not handle the power cord with wet hands!
- When unplugging from the wall outlet, always pull the plug, not the power cord.

3. Malfunctions, etc.

- There are no user serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the receiver.

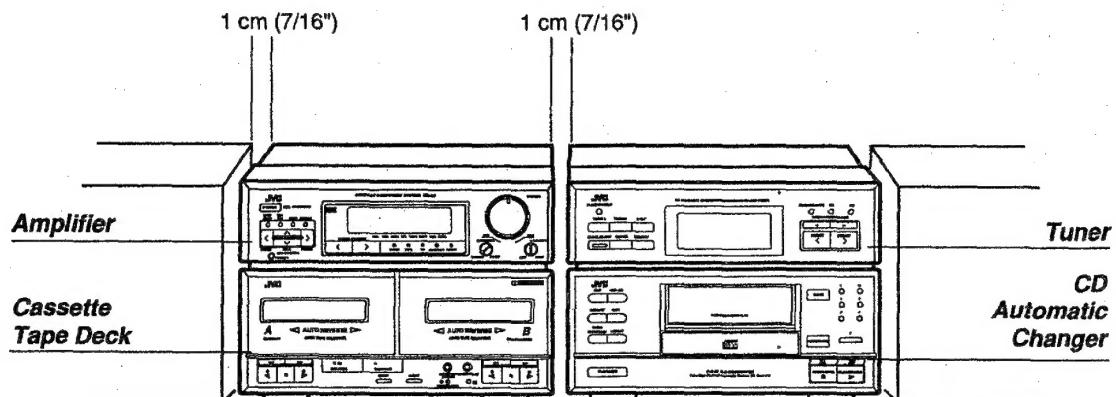
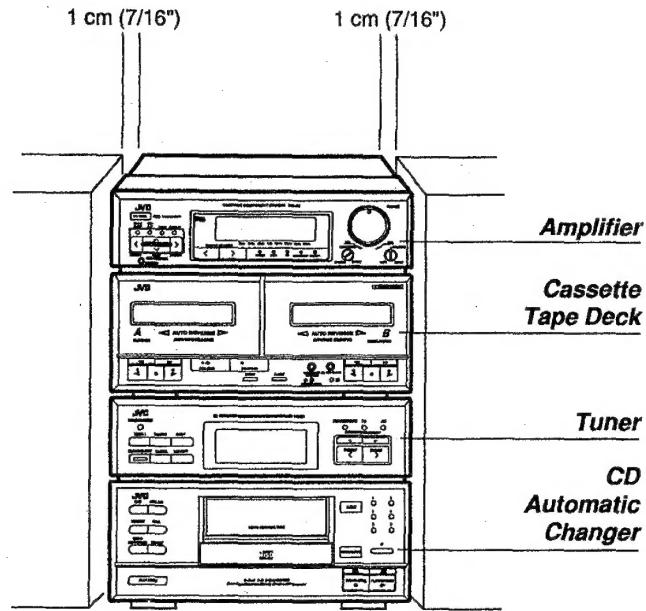
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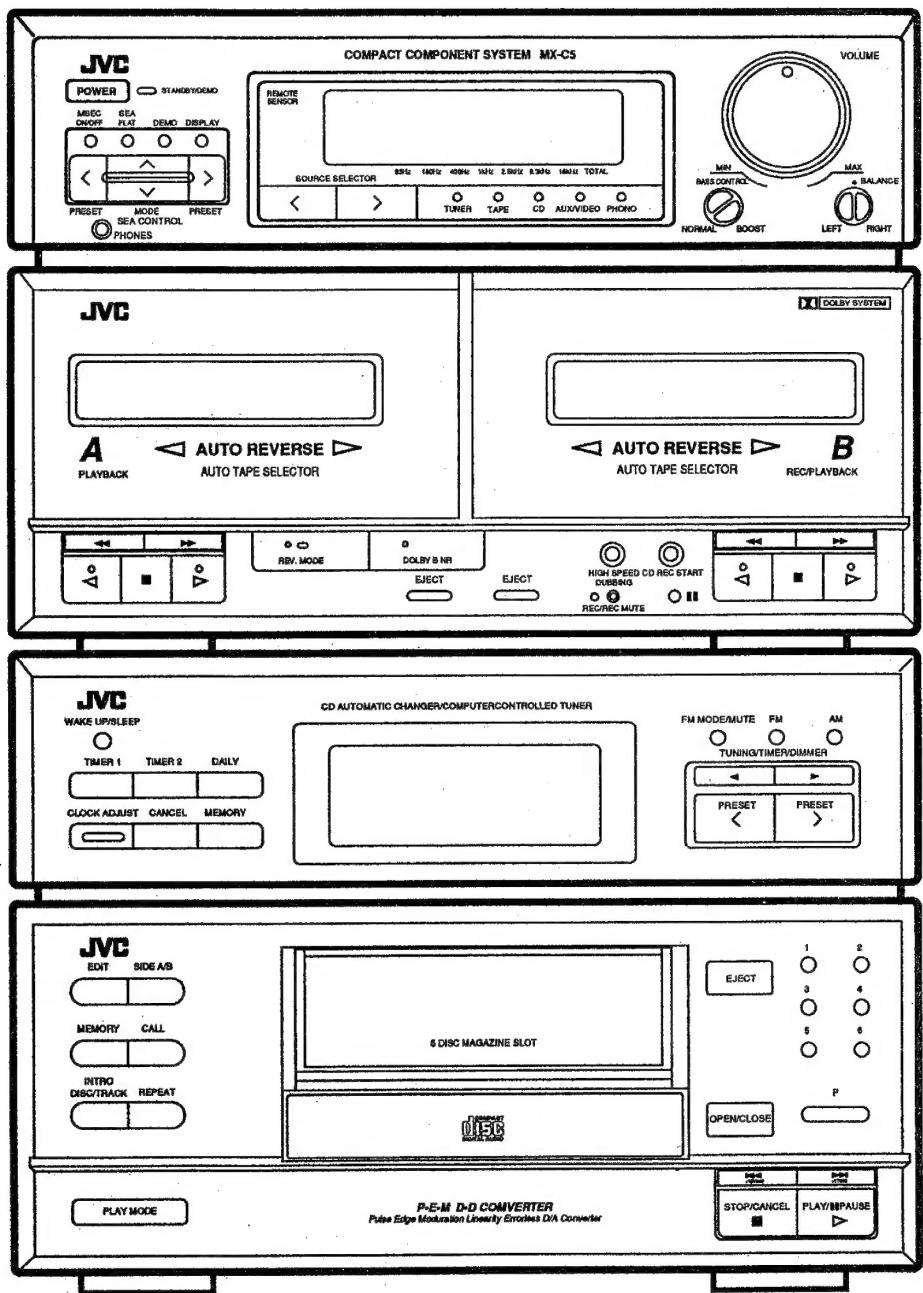
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Laying Out the System

There are two ways to lay out the system as shown below:

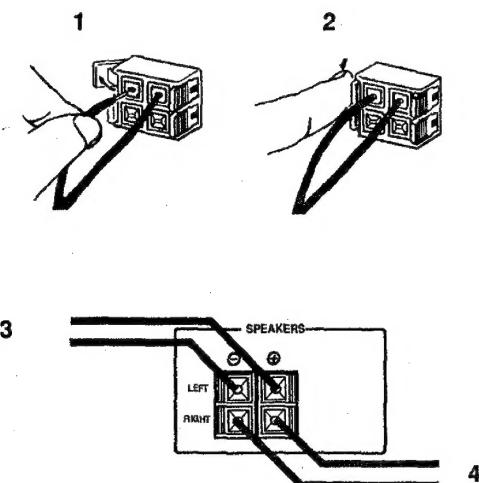
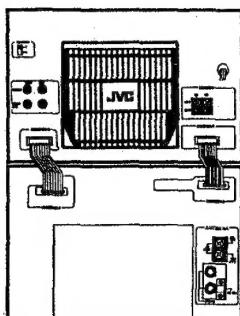
- Leave a space of at least one cm on both sides of the amplifier and keep the back at least 10 cm from the wall for ventilation.
- If the system does not work well or needs repairing, please take all the components with you to the nearest agent.





Getting Started

Connecting the System Components



Connection Notes

- Before you plug in the system, you must make all the necessary connections.

Connecting the Two stereo Components

- Connect the Amplifier/Tape Deck component and the Tuner/CD Automatic Changer component.

Connect the two ribbon cables (CONNECTOR A and B) from Tuner/CD Automatic Changer component to the Amplifier/Tape Deck component.

Connecting The Speakers

Speaker Terminals

Connect the speakers to the Amplifier/Tape Deck components as follows:

1. When connecting speakers, open each terminal and insert the end of the speaker wire as shown.
2. Close the terminals as shown to clamp the speaker wires in place.

SPEAKERS

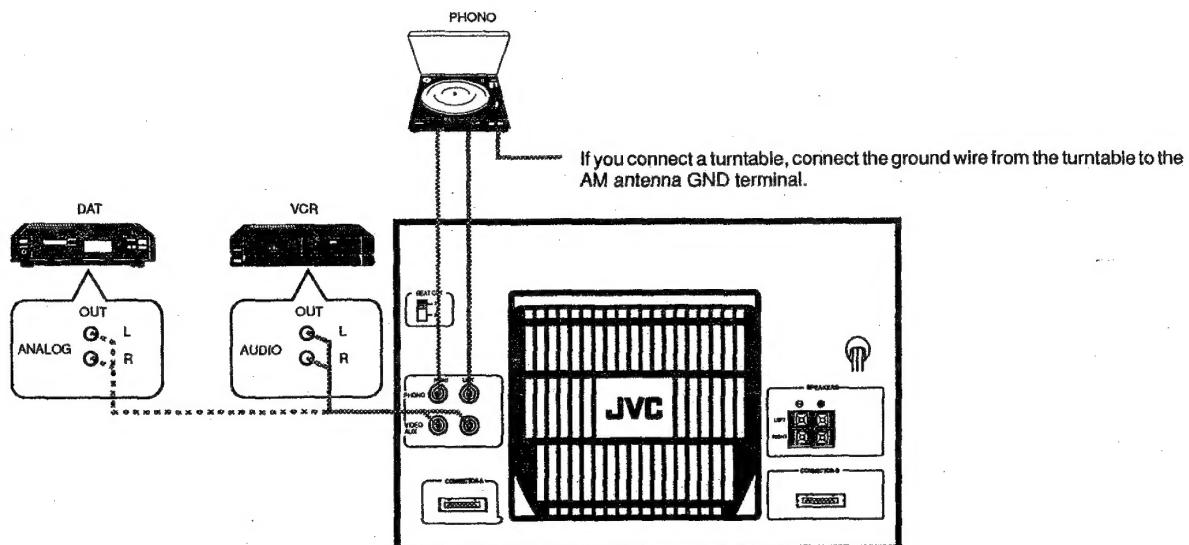
Connect the Speakers to the SPEAKERS terminal on the Amplifier/Tape Deck as follows.

3. Connect the (+) and (-) terminals of the right-side Speaker to the (+) and (-) terminals marked **RIGHT** on the Amplifier/Tape Deck.
4. Connect the (+) and (-) terminals of the left-side Speaker to the (+) and (-) terminals marked **LEFT** on the Amplifier/Tape Deck.

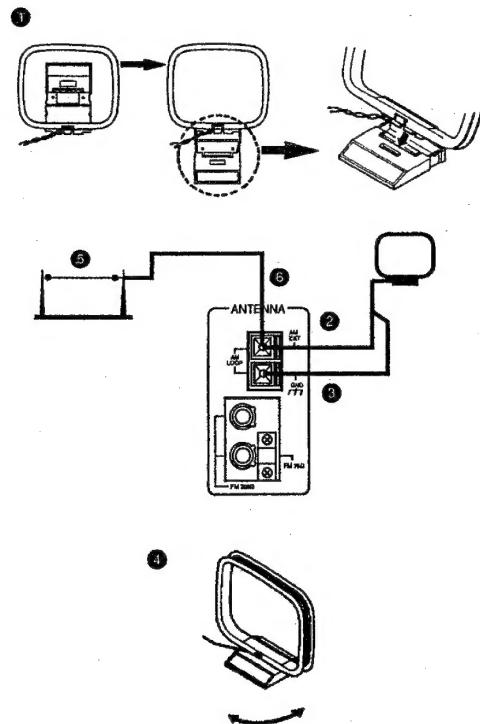
- Using speakers with the correct impedance. The correct impedance is indicated on the rear panel.

Connecting Other Components

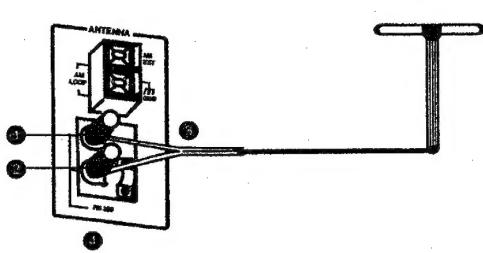
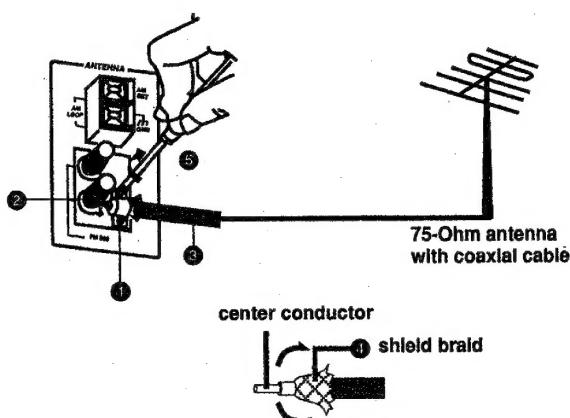
The amplifier can also be connected to a Turntable (PHONO), a Video Cassette Recorder (VCR) and a Digital Audio Tape (DAT) Deck.



AM Antenna Connections



FM Antenna Connections



AM Loop Antenna

1. Fold out the loop from the antenna base.
2. Connect one antenna wire to one of the AM LOOP terminals.
3. Connect the remaining antenna wire to the other AM LOOP terminal.

Note: These two terminals open and close the same way as the speaker terminals.

4. Adjust the loop antenna as needed to get the best reception.

AM Outdoor Antenna

If your AM broadcast reception is unsatisfactory, you should connect an AM outdoor antenna in addition to the loop antenna.

Important! The AM loop antenna must be installed to receive AM broadcasts. Do not disconnect the loop antenna when installing an outdoor antenna.

5. Install a single vinyl-covered antenna wire outdoors. The antenna wire should be about 16 to 40 feet (5 to 12 meters) long.
6. Connect one end of the antenna to the AM loop terminal marked AM EXT.

Note: Except for the connection, make sure that no uninsulated antenna wire touches the rear panel. Otherwise, you might not receive AM broadcasts.

FM 75-Ohm Antenna Cable

1. Loosen the screws holding the bracket.
2. Loosen the cap of the 300/75-ohm terminal.
3. Insert the round antenna cable through the bracket from below.
4. Make sure that the shield braid on the cable contacts the 300/75-ohm terminal.
5. Tighten the bracket screws and the cap on the 300/75-ohm terminal.

FM 300-Ohm Antenna Cable

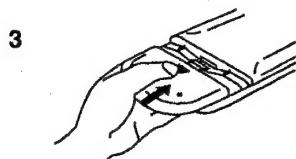
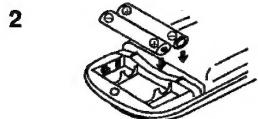
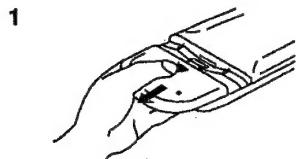
1. Loosen the cap on the 300/75-ohm terminal.
2. Loosen the cap on the 300-ohm terminal.
3. Connect the two conductors of the antenna cable to the 300/75-ohm terminal and the 300-ohm terminal.
4. Tighten the caps on both terminals.

Note: Whether you use the 75-ohm or 300-ohm cable, make sure the antenna conductors do not touch any other terminals on the rear panel. This could cause poor reception.

Note:

- Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord on the system. This could cause poor reception.

Installing Batteries in the Remote Controller



1. Remove the battery compartment lid.

Press the lid and slide it in the direction of the arrow.

2. Insert the batteries.

Use two UM-4/AAA (24F)/R03 size batteries.

Make sure the + and - polarities on the batteries and compartment are the same.

3. Attach the lid.

Press the lid and slide it in the direction of the arrow.

Note:

- Batteries installed incorrectly may burst or leak. Pay attention to the following:
 - When the Remote Controller is not in use for a long period of time, remove the batteries.
 - Do not mix old and new batteries.
 - Do not mix batteries of different types, even if their shapes are the same.
 - When batteries become weak, the operating distance of the Remote Controller is greatly reduced and you will need to replace the batteries.

AC power connection

Caution: To prevent electric shock, turn all stereo components off before you install or remove power cords.

Important! Before you plug the power cord into an outlet, make sure that all stereo components are connected correctly.

Using the Amplifier

Using the Power Switch

1. Press the POWER switch to turn on the stereo system. When the POWER switch is not pressed and the power cord is plugged in, the stereo is in STANDBY mode and STANDBY/DEMO indicator lights. In STANDBY mode, the stereo uses a small amount of power (12 watts) for the clock, memory contents, and any timers which are set.
2. To disconnect power completely, unplug the power cord.

Adjusting the Volume controls

Volume

Turn the VOLUME knob to adjust the volume level of the speakers or headphones.

- Connect headphones to the PHONES jack on the amplifier for listening through headphones. No sound will be produced from the speakers.

Important! There is danger of your hearing being affected if you listen to your sound system at an excessively high volume level. You must be especially aware of this danger when using headphones.

Balance

Turn the BALANCE knob to adjust the left-and-right sound balance in the speakers or headphones.

Bass Control

Turn the BASS CONTROL knob to adjust the output level of the low frequencies.

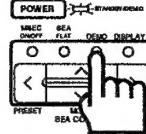
Turning this control toward BOOST will boost the low frequencies.

DEMO

The 51 SEA patterns which are inbuilt in the system will be played to you one by one. Please use this function while music is being played back.

1. Press the DEMO button.

The STANDBY/DEMO indicator starts flashing.



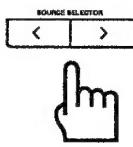
2. Demonstration playback will start from POPS MODE 1.

Frequency wave patterns change in accordance with the pattern of each demo mode.

- To cancel the demonstration playback, press the DEMO button again. It can also be cancelled by pressing any one of the other buttons on the amplifier.

Selecting the Source

Select the SOURCE you want to listen to with SOURCE SELECTOR button.



- Each time you press the SOURCE SELECTOR button, the source changes to the next one in the sequence, and the corresponding SOURCE indicator lights.

↔ TUNER ↔ TAPE ↔ CD ↔ AUX/
VIDEO ↔ PHONO ↔

Using Turntable, VCR and DAT

In addition to the CD Automatic Changer, Tuner, and Cassette Tape Deck, the amplifier can also play a turntable, a VCR and a DAT.

1. Turn the power for each piece of component ON.
2. To play a record, press the SOURCE SELECTOR button on the amplifier so that PHONO lights on the SOURCE indicator. To use VCR or DAT, press the SOURCE SELECTOR button on the amplifier so that AUX/VIDEO lights on the SOURCE indicator.
3. To operate the each component, refer to its instruction manual.

- You can operate a JVC VCR using the remote controller.

When VCR is connected, the sound is heard through the speakers.

Using the SEA Function

SEA (Sound Effect Amplifier) is a function which divides playback sound into 7 frequency ranges between 63Hz (bass) and 16kHz (treble); it then adjusts the sound quality by increasing and decreasing the level of each frequency range.

The total of 51 pre-programmed SEA settings are available in this system. Sound quality of these settings has been carefully adjusted using the SEA function. You can, therefore, find the sound quality you like by simply selecting the mode and the pattern without having to adjust each of the 7 frequency ranges.

There are 6 modes - POPS, JAZZ, ROCK, MOVIE, CLASSIC and FLAT - in the 51 pre-programmed SEA settings. Each of these modes, except for the FLAT mode, comes with 10 different patterns.

The pre-programmed SEA modes are:

POPS	Good for vocal music.
JAZZ	Gives a feeling of a live atmosphere.
ROCK	Boosted low and high frequencies.
MOVIE	Good for acoustic music.
CLASSIC	Adds breadth to the sound so you feel like you're in a movie theater.
FLAT	Set for wide and dynamic sound stereo systems.
	Gives a flat sound by tuning all frequencies to 0. Press the SEA FLAT button to obtain this mode.

1. Press the MODE button of the SEA CONTROL.



Each press of the MODE button changes the mode displayed in the following order:

MODE ↓ button

POPS — JAZZ — ROCK — MOVIE — CLASSIC — FLAT

MODE ↑ button

2. Press the PRESET button of the SEA CONTROL.



Each press of the PRESET button changes the pattern in the following order:

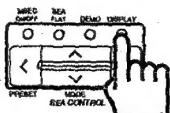
PRESET > button

1 ~ 10

PRESET < button

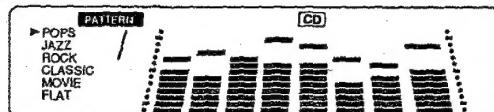
Changing the SEA Display

Four display modes (PEAK HOLD, PEAK LINE, REVERSE, EQUALIZING PATTERN) are available. Each time you press the DISPLAY button, the display mode will change in the following order:

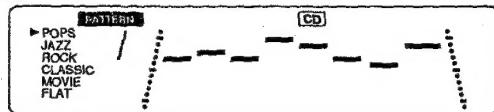


→ PEAK HOLD → PEAK LINE → REVERSE → EQUALIZING PATTERN
→ (back to the beginning)

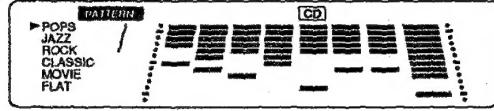
PEAK HOLD



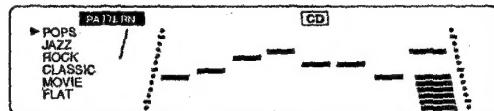
PEAK LINE



REVERSE



EQUALIZING PATTERN

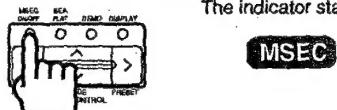


Using the MSEC Feature

MSEC (Multi Source-related Effect Control) is a function which can memorize and then automatically recall the SEA pattern as well as SEA mode for each sound source. If the power is switched off or the sound source is changed, the SEA modes and patterns will be stored in the memory. These memorized modes and patterns can later be automatically recalled as you change the sound source.

Press the MSEC ON/OFF button.

The indicator starts flashing.



Set the SEA mode and pattern of your choice for each source.

The unique combination of SEA mode and pattern you have selected for each source will be automatically recalled when you change the sound source.

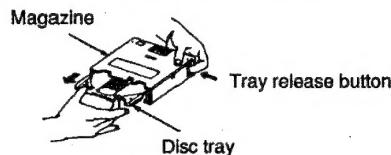
- When MSEC is turned OFF, the SEA mode and pattern will not be memorized.
- If MSEC is initially turned OFF and then turned ON during the playback, the SEA mode and pattern which have been memorized will be automatically recalled.

Using the CD Automatic Changer

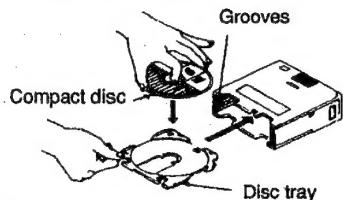
Installing the discs in the magazine

How to install the discs

1. The discs trays in the magazine are removable.
Slide the disc tray out while simultaneously the tray release button.



2. Locate a disc on the disc tray with its label side up.

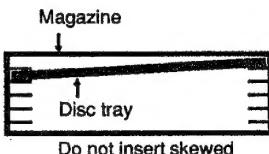


3. Line up the disc tray with the grooves in the magazine and push the disc tray right in.
It is unnecessary to press the tray release button when inserting the disc tray.

- If you wish to use 8 cm (3") CDs, please obtain the special magazine (XC-M73), designed for these.

Please note:

- Never bend the disc tray or force it into the magazine.
A disc tray inserted skewed may cause a malfunction.



- The openings in the disc trays are for the passage of the laser signal.
These openings leave a part of the shiny surface of the disc exposed.
Please take care not to touch this shiny surface.
- It is not possible to play from the disc if it is located upside-down.
- Never place a disc directly in the magazine without using the disc tray.

Preliminary Operation

Up to seven discs can be played by using both the SINGLE PLAY TRAY and magazine.

Insert the magazine, discs installed in, in the MAGAZINE SLOT.
Push it gently until it clicks in place.

Install a disc on the SINGLE PLAY TRAY.

1. Press the OPEN/CLOSE button on the CD Automatic Changer.
The SINGLE PLAY TRAY slides out.
2. Place a CD (with a label facing up) in the tray, and press the OPEN/CLOSE button again.
The tray slides back in.
3. Press the CD Automatic Changer PLAY/PAUSE button, or select CD with the amplifier SOURCE SELECTOR.
The CD Automatic Changer plays the CD on the single play tray with the first track.

The single play tray is indicated by P on the display. For the order in the magazine, the bottom disc tray is Disc No. 1, the disc tray above it is Disc No. 2, and the top disc tray is Disc No. 6.

To Stop Play

Press the STOP/CANCEL button on the CD Automatic Changer or Stop button on the Remote Controller.



Ejecting the MAGAZINE

Press the EJECT button on the CD Automatic Changer.



Ejecting the CD

1. Press the OPEN/CLOSE button, and take the CD out of the tray.

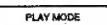


2. Press the OPEN/CLOSE button again to close the tray.

Continuous Play

In CONTINUOUS mode, you may play any of the selection of any disc, to the final track on the DISC No. 6, continuously.

Press the PLAY MODE button and select the CONTINUOUS mode.
If you use the Remote controller, press the CD CHANGER button and then press the CONTINUE button.
The CONTINUE indicator lights.



- When the power is switched on, control enters the CONTINUOUS mode.
- When you select CD with amplifier SOURCE SELECTOR, the CD Automatic Changer begins to play.

Note:

- When you press the PLAY MODE button and change the mode, set the CD Automatic Changer to the Stop mode. You cannot change the mode during playing.

To Play from the First Selection

Press the PLAY/PAUSE button on the CD Automatic Changer.



The discs are played in order from the first track on the single play tray to the last track on Disc No. 6.

- If the single play tray is open, it will close automatically and playback will begin.
- If there is no CD on the disc tray or there is no disc tray, the CD on the next disc tray is played.

Stopping and Restarting Playback

1. Press the PLAY/PAUSE button on the CD Automatic Changer.
Playback stops temporarily.

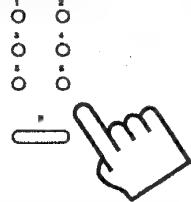
Note:

- If you press the CD CONTROL ▶ button on the Remote Controller, the playback will not stop temporarily.

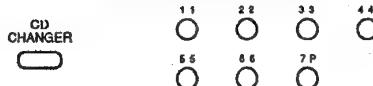
2. Press the PLAY/PAUSE button again.
Playback restarts.

Selecting a Disc to Play

1. Select the disc desired with the DISC button on the CD Automatic Changer.



If you use the Remote Controller, press the CD CHANGER button, and specify the Disc No. with numeric keys 1 to 6 and P.



- The discs are played in order from the first track on the CD with the selected disc No. to the last track on Disc No. 6.

Notes:

- If there is no CD on the disc tray or the disc No. with disc tray specified, the CD on the next disc tray will be played.
- The disc No. indicators go off if there is no CD on the disc tray and there is no disc tray. You cannot select any disc No. If the corresponding indicator is off.

Selecting a Track to Play

Use the button.

Scanning through track numbers (AUTO SEARCH)

Each time the button is pressed, the track moves backward by one number.

Each time the button is pressed, the track moves forward by one number.

- If you press the or button continuously while the CD Automatic Changer is in the stop mode, the track number will continue to move in the selected direction.
- If you press the or buttons while the CD Automatic Changer is in the pause mode, you will find the original track you selected. You can restart playback by pressing the PLAY/PAUSE button.

Searching for a specific part of a track (MANUAL SEARCH)

If you hold down the button while the CD Automatic Changer is playing or has paused, fast rewinding will occur.

If you hold down the button while the CD Automatic Changer is playing or has paused, fast forwarding will occur.

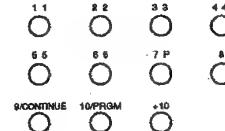
Notes:

- When the track number selected on a certain disc does not exist, play starts from the final selection on that disc.
- If there is no CD on the disc tray or you specify a track with the disc No. without a disc tray, the display Disc No. indicator will go off, and the CD on the next disc tray will be played.

Using the Remote Controller to Select a Track

There are two ways to search for a track with the remote controller:

Numeric keypad



AUTO SEARCH buttons or

Using the Numeric Keypad

1. Press the CD 10KEY button on the Remote Controller.

2. Enter the track's number with the numeric keys.

- If the track you want to hear is the 8th track, press the 8 key.
- If the track you want to hear is the 15th track, press the +10 key and the 5 key.
- If the track you want to hear is the 20th track, press the +10 key and the 10 key.

Using the Auto Search Buttons

Press the Auto Search or button on the Remote Controller to scan through the track numbers.

Note:

- You cannot search manually by holding down the or button on the Remote Controller.

Listening Repeatedly

Using the REPEAT button.



Each time you press the REPEAT button, the mode will change in the following order:

→ REPEAT → REPEAT 1 → OFF → (back to the beginning)

REPEAT

If all discs in the CD Automatic Changer and the last track are played, playing will be repeated from the first disc.

It will keep repeating until you cancel the repetition.

- If you select the REPEAT mode in the PROGRAM mode, all the programmed tracks will be played, and they will be repeated in the order programmed.

REPEAT 1

The current track will play to the end and then start over again. It will keep repeating until you cancel the repetition.

- If you select the REPEAT 1 mode in the PROGRAM mode, the selected track will be played repeatedly.

Cancelling Repetition

Press the REPEAT button and turn the REPEAT indicator off. Each track will play till the end without repeating.

INTRO play

This function is useful to search for a disc or track in the CD Automatic Changer.

1. Press the STOP/CANCEL button on the CD Automatic Changer or Stop button on the Remote controller.
2. Press the PLAY MODE button and select the CONTINUOUS mode. If you use the Remote Controller, press the CD CHANGER button and then press CONTINUE button. The CONTINUE Indicator lights.



3. Press the CD Automatic Changer INTRO button and select the desired mode. Each time you press the INTRO button, the mode changes in the following order:



→ DISC INTRO → INTRO → OFF → (back to the beginning)

DISC INTRO mode

Play the first track of each of the discs in the CD Automatic Changer from the disc on the single play tray to Disc No.6, for 15 seconds.

INTRO mode

Play the beginning of each track of the discs in the CD Automatic Changer from the disc on the single play tray to Disc No.6, for 15 seconds.

4. Press the PLAY/PAUSE button on the CD Automatic Changer or Play button on the Remote Controller.



- Each track will be played for 15 seconds in the mode you selected.

Notes:

- When you press the or button in the INTRO mode, this mode will be canceled, and tracks will be played as follows. If you press the button, the currently selected track will be played from the beginning in the CONTINUOUS mode. If you press the button, the track following the currently selected track is played in the CONTINUOUS mode. If you hold down the or button, the manual search function will be available, and you can have fast-rewind or fast-forward.
- If you press the Disc button on the CD Automatic Changer in the INTRO mode, or if you press the CD CHANGER button on the Remote Controller, then select a disc with numeric keys. This will cancel the INTRO mode, and tracks will be played in the CONTINUE mode, starting from the first track of the disc.
- If you press the CD 10KEY button on the Remote Controller, select a disc with numeric keys while playing in the INTRO mode, the INTRO mode will be canceled, and tracks will be played in the CONTINUE mode from that track.

To cancel the INTRO play

1. Press the STOP/CANCEL button on the CD Automatic Changer or the Stop button on the Remote Controller.



2. Press the INTRO button and turn the Indicator off.

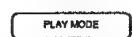
Note:

- If you press the STOP/CANCEL button on the CD Automatic Changer or the Stop button on the Remote Controller, and press the PLAY MODE button, the INTRO mode will be canceled, and the CONTINUOUS mode will change to the PROGRAM mode.

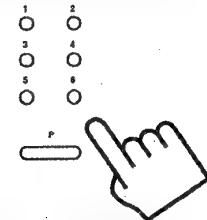
Programmed Play

In PROGRAM mode 32 steps can be programmed to play in any desired order from the 7 discs loaded into the magazine and single play tray.

Press the PLAY MODE button and select the PROGRAM mode. If you use the Remote Controller, press the CD CHANGER button and then press the PRGM button. The PROGRAM indicator lights.



1. Press the STOP/CANCEL button. This puts the CD Automatic Changer in STOP mode.
2. Press the PLAY MODE button on the CD Automatic Changer and select the PROGRAM mode. The PROGRAM indicator lights.
3. Press the DISC button and select a disc. The AL Indicator flashes on the display.



- If you use the Remote Controller, press the CD CHANGER button and then specify the Disc No. with numeric keys 1 to 6 and P.

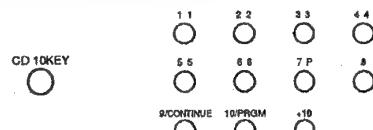


- The AL indicator shows that all the tracks on the selected disc have been selected. If you press the MEMORY button while the AL indicator is flashing, all the tracks on the disc are programmed.

4. Press the or button and select a track. The step and the selected track flash on the display.



- If you use the Remote Controller, press the CD 10 KEY button, and then specify a track with numeric keys.



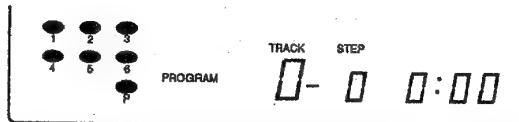
- Select a track while the AL indicator is flashing on the display.

5. Press the MEMORY button on the CD Automatic Changer. The step and the selected track will light on the display. The CD Automatic Changer will wait for selection of the next track.



6. Select a track by repeating steps 3 to 5.

- You can program up to 32 tracks.
- Perform steps 3 to 5 while the display is flashing. If the display stops flashing and lights as follows, perform step 3 and subsequent steps again.



7. Press the PLAY/PAUSE button on the CD Automatic Changer.

Playback begins with the first track in the program.

Checking the Program

You can check the programmed sequence of playback to determine which tracks will be played in which order.

Note:

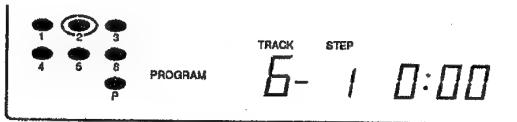
- The program contents cannot be displayed during playback. Press the STOP/CANCEL button if the CD Automatic Changer is in play mode.

1. Press the CALL button once on the CD Automatic Changer.



The first track in the program are displayed, along with its sequence number.

For example:



This display shows that track 6 on Disc No. 2 is played first.

2. Press the CALL button repeatedly.

The rest of the tracks in the program are displayed, along with their sequence numbers.

Listening to Programmed Tracks Repeatedly

1. Press the REPEAT button to listen to the programmed sequence of playback repeatedly.



2. Then press the PLAY/PAUSE button.

Updating the Program

Adding Tracks to the Program

- You cannot add any track to the program while playing. If the CD Automatic Changer is playing, press the STOP/CANCEL button.

Perform steps 3 to 5 in the section "Programmed Play" on page 13.

Program modification

- You cannot modify the program while playing. If the CD Automatic Changer is playing, press the STOP/CANCEL button.

1. Hold down the CALL button until the track or step to be modified appears.

Select them while the step is flashing on the display.

The track and step appear on the display, and the step flashes.



2. Select the Disc. No. and track.

The track and step appear on the display, and the step flashes.

- If the display stops flashing and lights, perform step 1 and subsequent steps again.

3. Press the MEMORY button.

Deleting Tracks from the Program

- The program contents cannot be deleted during playback. Press the STOP/CANCEL button if the CD Automatic Changer is in play mode.

1. Press the CALL button.

Press the CALL button until the track or step to be deleted appears on the display.

2. Press the STOP/CANCEL button on the CD Automatic Changer.

The track being displayed will be deleted.



To delete all programmed steps:

- Set the CD Automatic Changer to the Stop mode, press the STOP/CANCEL button and delete all programmed steps.
- Switch the power off.
- The program remains in memory until you switch the power off. To program new tracks, first turn the power off to delete the whole program.

To cancel the PROGRAM mode:

- Set the CD Automatic Changer to the Stop mode, press the PLAY MODE button, and select another mode.

Random Play

In RANDOM mode, the CD Automatic Changer selects and plays tracks at random, from among the 7 discs in the magazine and the single play tray.

- Selections can be made so that each track would be played only once.

1. Press the PLAY MODE button and select the random mode.

The RANDOM indicator lights.



2. Press the PLAY/PAUSE button on the CD Automatic Changer or CD CONTROL ▶ button on the Remote Controller.

CD Automatic Changer starts playing tracks at random.

- If you set the CD Automatic Changer to the REPEAT mode by pressing the REPEAT button, even after all tracks have been played once, the CD Automatic Changer will again select and play at random to continue the random playback.

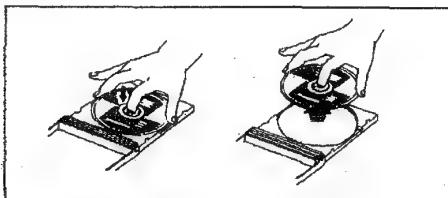
3. To cancel random playback, press the STOP/CANCEL button.

To cancel the RANDOM mode:

- Set the CD Automatic Changer to the Stop mode, press the PLAY MODE button, and select another mode.

Handling Compact Discs & The Magazine

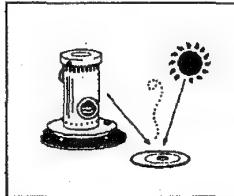
How to handle CDs



When handling compact discs, do not touch the surface of the disc (reflective silver side-the side without the label).

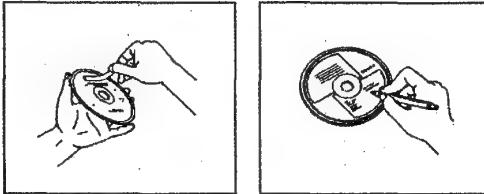
Since compact discs are made of plastic, they are easily damaged. If the disc gets dirty, dusty, scratched or warped, the sound will not be picked up correctly and, in addition, such discs may cause the CD Player-changer to malfunction.

Storage

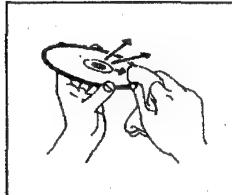


Make sure that the discs are kept in their cases. If the discs are piled, one on top of another, without their protective cases, they can be damaged. Do not put discs in any location where they can be exposed to direct sunlight- or in any place where the humidity or the temperature are high. Avoid leaving discs in your car!

Maintenance of Discs



- Do not damage the label side, or stick paper to, or use any adhesive on this surface.



- When there are fingerprints or other dirt adhering to a disc, wipe the disc with a soft, dry cloth, with a movement going from the inside, outwards.
- If it is difficult to clean, wipe the disc with a cloth moistened with water.
- Never use record cleaners, petrol, alcohol or any anti-static agents.

Recommendations on handling the magazine.

1. Always keep the magazine loaded with its six disc trays.
2. When removing or inserting the disc trays, the magazine should be held horizontal.
3. Only load the magazine with compact discs already located on disc tray. Never load a disc directly into the magazine without a disc tray.
4. Do not expose it to high temperatures or to direct sunlight.
5. Do not dismantle the magazine.
6. Take care not to drop or bang the magazine. Do not apply any high loadings to the disc trays, particularly when removed from the magazine.
7. Never apply such solvents as petrol or thinner, nor insecticide to the surfaces of the magazine or the disc trays. Such solvents may damage their surfaces.
8. If you wish to use 8 cm (3") CD please obtain the special magazine (XC-M73), designed for these.

Only use compact-discs bearing the mark shown below:

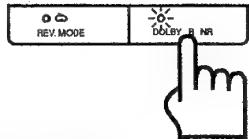


Using the Tape Deck

The tape deck has an Auto Tape Select feature, which can tell the difference between various types of cassette tape. It can distinguish between Normal (Type I) and CrO₂ - High Position (Type II).

Playing a Tape

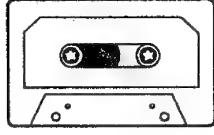
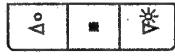
1. Press the EJECT button to open the cassette holder.
2. Insert a cassette and shut the cassette holder.
3. If the tape was recorded with Dolby B noise reduction, press the DOLBY B NR switch. The indicator light will go on.



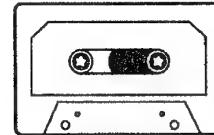
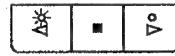
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.
- 4. Start playback by either of the following methods:

- Press the <| or > button.

Press the > button if the tape is wound mostly on the left side.



Press the <| button if the tape is wound mostly on the right side.



- Select TAPE with the SOURCE SELECTOR button on the amplifier.

Note:

- When cassettes are in both decks A and B, deck B starts first.

Stopping Playback and Ejecting the Tape

1. Press the STOP button on the tape deck.



2. Press the EJECT button to open and remove the tape from the cassette holder.

3. Shut the cassette holder.

Note:

- If the system is turned off while a tape is playing, you may not be able to eject the tape. You will need to turn the system back on and press the EJECT button to open the cassette holder.

Stopping and Restarting Playback

1. Press the PAUSE button on the tape deck.



Playback of the tape in deck B stops temporarily.

Note:

- The PAUSE button only applies to deck B.

2. Press the <| or > button.

The restarts playback of the tape in deck B.

Changing the Playback Direction

1. To change the playback direction during playback, press the <| or > button. The other side of the tape will now play.
2. To change the playback direction without starting playback, press the <| or > button while also pressing the stop ■ button.

Fast-Winding the Tape

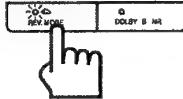
Press the <| or > buttons on the Tape Deck to advance the tape rapidly in the direction of the arrows.

Listening the Tape Continuously

You can set the tape deck up to play both sides of the tapes in decks A and B repeatedly.

1. Insert cassettes into decks A and B.

2. Press the REV. MODE button on the cassette deck so the indicator lights.



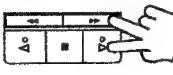
- The tape deck will be placed in auto reverse mode, which means that it will play all of one side of the tape and then all of the other side.

3. Press the <| or > button on deck to be started first.

- Now both sides of the both tapes will play repeatedly.
- After playback in reverse direction ends, the playing deck (A or B) will be switched to the other deck.
- If the tape deck is not placed in auto reverse mode, only one side of the tapes in deck A and B will play continuously.
- When you select TAPE with the SOURCE SELECTOR on the amplifier, deck B starts first.

Music Scanning

The music scan function will detect the blank segments between tracks. The blank should be about 4 seconds long for the music scan to be effective.



You can locate the beginning of the current track or next track quickly by pressing the playback button and the fast-winding button simultaneously.

Searching for Beginning of the Current Track

- If the tape is traveling in the forward direction, press the <| fast-winding button while simultaneously pressing the > playback button.
- If the tape is traveling in the reverse direction, press the > fast-winding button while simultaneously pressing the <| playback button.

Searching for Beginning of the Next Track

- If the tape is traveling in the forward direction, press the > fast-winding button while simultaneously pressing the > playback button.
- If the tape is traveling in the reverse direction, press the <| fast-winding button while simultaneously pressing the <| playback button.

Note:

- The deck that is playing will stop if the music scan function is used on the other deck.

The music scan function is not effective:

- When the track being scanned contains an area of low sound level.
- When the blank between tracks is short.
- When there is noise, for example, a hum between tracks.

Recording a Tape

Recording Notes

- Deck A is used for playback only, and deck B is used for both recording and playback.
- To reduce hiss, use the Dolby B noise reduction system. Press the DOLBY B NR button. The indicator light will go on.
- To record on both sides A and B continuously, select reverse mode by pressing the REV. MODE button.
- The recording level is set automatically.
- If the small tabs on cassette tapes which prevent accidental erasure have been removed, the contents of the tape cannot be over-recorded or erased. To record or erase, cover the holes with adhesive tape. The tab in the upper left corner controls the side facing you; and the other tab controls the opposite side.
- If you are recording an AM broadcast and you hear interference, move the BEAT CUT switch on the rear panel of the cassette deck & amplifier unit from Position 1 (the normal mode) to Position 2.

Recording from Various Sources

1. Insert a cassette for recording into deck B.
2. Select the source you are recording from.
3. Press the Pause II button on the tape deck while simultaneously pressing the REC/REC MUTE button.

This puts the deck B in REC/PAUSE mode.

REC/REC MUTE O II

4. Start the source to be recorded.
5. Press the Play <| or > button on the deck B to start recording. To record on both sides of tape, start recording in the forward (>) direction.
6. To stop recording, press the Stop ■ button.
7. To stop recording temporarily, press the Pause II button on deck B. To restart recording again, press the Play button <| or >.

Dubbing a Tape

Normal-speed Dubbing

1. Insert the cassette for playback into deck A and the cassette for recording into deck B.
2. Press the Pause II button while simultaneously pressing the REC/REC MUTE button on deck B.

This places deck B in REC/PAUSE mode.

3. Press the Play button <| or > (depending on which side of the tape you want to record from) on deck A.
4. Press the Play button <| or > (depending on which side of the tape you want to record onto) on deck B.

The tape-to-tape recording starts.

Note:

- You cannot listen to another source during normal-speed dubbing.
- To stop normal-speed dubbing before end of either the playback or record tape, press the Stop ■ buttons on decks A and B.

High-Speed Dubbing

1. Insert the cassette for playback into deck A and the cassette for recording into deck B.
2. Press the HIGH SPEED DUBBING button on the Tape Deck.

The high-speed tape-to-tape recording starts.



Note:

- You can listen to another source while high-speed dubbing is in progress.
- To stop high-speed dubbing before reaching the end of either playback or record tape, press the Stop ■ button on deck B.
- If nearby television is on during high-speed dubbing, beeping noise may be recorded onto the record tape. So turn off the television or move it farther away.
- 3. Press the Stop ■ button on deck A when you hear the end of a track to record from many different tapes (for example, to create a "Greatest Hits" tape).

Deck A stops playback, and deck B automatically creates about a 4 second blank, then pauses.

Note:

- If you don't want this blank, press the Pause II button on deck B before pressing the Stop ■ button.
- 4. Put another tape in to deck A.
- 5. Press the HIGH SPEED DUBBING button on the Tape Deck.

The high-speed dubbing restarts.

6. To record tracks from other tapes, repeat steps 3-5.

Note:

- It should be noted that it may be unlawful to re-record prerecorded tapes, records, or discs without the consent of the owner of copyright in the sound recording and in any copyright musical or literary work embodied in that recording.

Erasing a Tape

1. Insert the tape to be erased into deck B.

- When you want to erase both sides, press the REV. MODE button so the indicator lights.
- 2. Press the Pause II button while simultaneously pressing the REC/REC MUTE button.

This puts the deck in REC/PAUSE mode.

3. Press the SOURCE SELECTOR button on the amplifier to select the TAPE.
4. Press the <| or > button (depending on which side of the tape you want to erase) on deck B.

The erasure of the tape begins.

Direct Recording from the CD Automatic Changer

Direct recording permits a tape deck to start recording automatically in synchronism with a CD Automatic Changer.

1. Insert the cassette for recording into deck B.
- If you wish to record on both sides of the cassette, press the REV. MODE button so the indicator lights.
2. Set the CD and magazine.
3. Press the CD REC START button on the Tape Deck.



- The CD Automatic Changer and the Tape Deck are activated, and recording begins with the first track of the CD.
- To stop direct recording, press the Stop ■ button on deck B or the STOP/CANCEL button on the CD Automatic Changer.

Note:

- If you press the Disc button, ▶TIME or ▶TIME button during recording, the track to be recorded is changed.

Recording CD Tracks in Auto-Edit Mode

In Auto-Edit mode, tracks from the CD will automatically be selected to determine which tracks should go on side A of the tape and which should go on side B.

The selection is based on the lengths of the tracks and the length of the tape.

This ensures a proper "fit" of the tracks recorded on the tape. It prevents a track from being cut off when the end of the tape is reached.

1. Insert the cassette for recording in deck B.
- When you want to record both sides of a cassette, select reverse mode by pressing the REV. MODE button so the indicator lights.
2. Set the CD and magazine.
3. Press the STOP/CANCEL button on the CD Automatic Changer.
4. Press the EDIT button on the CD Automatic Changer and select the Auto Edit mode.

The A. EDIT indicator lights.



5. Enter the length of the tape to be recorded using the ▶TIME and ▶TIME buttons.



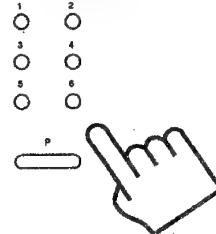
For example: To set a period of 46 minutes, press the ▶TIME button four times and press the ▶TIME button six times.

6. Press the SIDE A/B button.

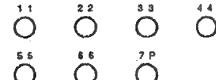
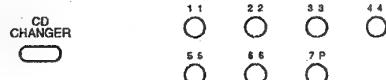


- The CD Automatic Changer calculates which tracks should be placed on side A and which should be placed on side B.

7. Press the Disc button and specify the Disc No. of the disc to be recorded.



- If you use the Remote Controller, press the CD CHANGER button and then specify one of 1 to P with a numeric key.



- To change the disc, specify the Disc No. of another disc again.
- To start recording the tracks on the selected CD with a track other than the first, press the ▶TIME or ▶TIME button on the CD Automatic Changer or press the ▶◀ or ▶▶ button on the Remote Controller to specify the track with which recording is to start.



8. Press the MEMORY button on the CD Automatic Changer. The Auto Edit program is created automatically.



- The last track to be recorded, the number of steps, and the remaining time of side B of the set tape are shown on the display. When you press the SIDE A/B button again, the last track of side A of the set tape to be recorded, the number of steps, and the remaining time of the tape are shown on the display.
- To check the Auto Edit contents, press the CALL button. Each time you press the button, the track and step of the displayed side will show on the display.



Note:

- Up to 16 tracks can be allocated for each side of the cassette.

9. Press the CD REC START button on the Tape Deck.



- The tape is automatically rewound to the beginning of side A, and then recording begins.
- When the Tape Deck is set in the auto reverse mode, after the last track is recorded on side A, the tape deck high-speed-erases to the end of side A. Then it changes direction to side B and begins recording the remaining tracks.
- To stop recording, press the Stop ■ button on deck B, or press the STOP/CANCEL button on the CD Automatic Changer.

Note:

- During recording in the Auto-Edit Mode, do not operate the CD Automatic Changer.

To cancel the Auto-Edit mode, press the STOP/CANCEL button on the CD Automatic Changer, then press the PLAY MODE button.

Recording CD Tracks in Programmed-Edit Mode

You can make your favorite selections from 7 CD and record them on cassette.

1. Insert the cassette for recording in deck B.

- When you want to record both sides of a cassette, select reverse mode by pressing the REV. MODE button so the indicator lights.

2. Set the CD and magazine.

3. Press the STOP/CANCEL button on the CD Automatic Changer.

4. Press the EDIT button on the CD Automatic Changer and select the Programmed Edit mode.

The P. EDIT indicator lights.



5. Enter the length of the tape to be recorded using the +TIME and -TIME buttons.



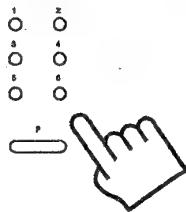
For example: To set a period of 46 minutes, press the +TIME button four times and press the -TIME button six times.

6. Press the SIDE A/B button.

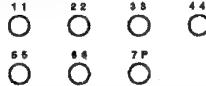


- This tells the system that you will be choosing tracks to be recorded on side A of the tape.
- The length of time for one side of the tape is displayed. This is half of the total tape length. The total time for the tracks you choose for each side cannot exceed this time.
- If you do not press the SIDE A/B button, side A is automatically selected.

7. Press the Disc button and specify the Disc No. of the disc containing the track to be recorded.



- If you use the Remote Controller, press the CD CHANGER button and then specify one of 1 to P with a numeric key.

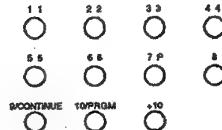


- To change the disc, specify the Disc No. of another disc again.

8. Press the +TIME or -TIME button and select the track to be recorded.



- If you use the Remote Controller, press the CD 10KEY button, then specify a track with a numeric key.



9. Press the MEMORY button on the CD Automatic Changer.



- Up to 16 tracks can be allocated for each side of the cassette.
- If the length of a track exceeds the remaining tape length, the time indication blinks on the display. Choose a different track number.
- To delete a track from the program, press the CALL button to display the track to be deleted. Press the STOP/CANCEL button on the CD Automatic Changer.

10. If you also want to record on the other side of the tape, press the SIDE A/B button and repeat steps 7-9.



- To check the Programmed Edit contents, press the CALL button. Each time you press the button, the track and step of the displayed side are shown on the display.

To modify a track in the program, press the CALL button, and call the track to be modified. Select a new Disc No. and track, then press the MEMORY button.

11. Press the CD REC START button on the Tape Deck.



- The tape is automatically rewound to the beginning of side A, and then recording begins.
- When the Tape Deck is set in the auto reverse mode, after the last track is recorded on side A, the tape deck high-speed-erases to the end of side A. Then it changes direction to side B and begins recording the remaining tracks.
- To stop recording, press the Stop ■ button on deck B, or press the STOP/CANCEL button on the CD Automatic Changer.

To cancel the Programmed-Edit mode, press the STOP/CANCEL button on the CD Automatic Changer, then press the PLAY MODE button.

Note:

- The program cannot be edited during recording. To modify the program, cancel the Programmed-Edit mode, and perform step 4 and subsequent steps.

Note:

- During recording the Programmed-Edit mode, do not operate the CD Automatic Changer.

Creating a Blank During Recording

Use the Record Muting function when you do not want to record a section of the source.

1. Press the REC/REC MUTE button on the Tape Deck at the beginning of the section you don't want to record.



A blank of about 4 seconds is created on the cassette, and then the deck pauses.

2. To start recording again, press the < or > button.

- To create a blank of more than 4 seconds, hold down the REC/REC MUTE button. When you release this button, the deck pauses.
- When the source you are recording from is the CD Automatic Changer and the CD REC START button is used, the REC/REC MUTE button will not function.
- The Remote Controller REC button does not have the REC MUTE function.

Recording with the Timer

The Tape Deck can be set up to record a tape automatically. This is especially useful for recording broadcasts when you are not around, or late at night when you are asleep.

1. Insert a cassette for recording in to deck B.
2. Set the timer, by following the steps in "Setting the Timers".
3. Select one of the following sources:

TUNER TIMER REC	Records TUNER preset stations
-- TIMER REC	Records from the source selected before turning off the system.

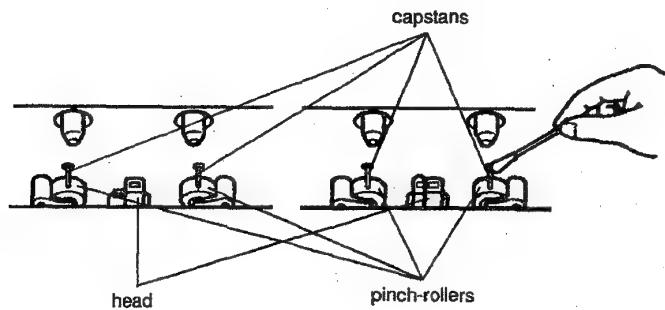
Care and Handling

You must handle your cassette tapes, and tape deck carefully to preserve the full length of their life-times.

- If a tape is loose in its cassette, take up the slack by inserting a pen in one of the reels and rotating it.
If a tape is loose, it may get stretched, cut, or caught in the cassette.
- Do not touch the tape surface.
- Do not store the tape:
 - In dusty places
 - In direct sunlight or heat
 - In moist areas
 - On a TV or speaker
 - Near a magnet
- The use of C-120 or thinner tape is not recommended.

Tape Deck

- If the head, capstans, or pinch-rollers of the tape deck become dirty, the following may occur:
 - Impaired sound quality
 - Discontinuous sound
 - Fading
 - Incomplete erasure
 - Impossible to record
- Clean the head, capstans and pinch-rollers with a cotton swab moistened with alcohol.



Using the Tuner

Listening the Broadcasts

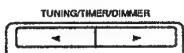
The tuner can receive FM and AM broadcasts. Stations can be tuned in manually, automatically, or from preset memory storage.

Manual Tuning

1. Select the broadcast band you want to tune in by pressing the FM or AM button on the Tuner.



2. Press the TUNING/TIMER/DIMMER button (◀ or ▶) to tune in a station.



3. Hold down the TUNING/TIMER/DIMMER button to change the frequency rapidly, then tap the button to set the frequency precisely.

Automatic Tuning

1. Select the broadcast band you want to tune in by pressing the FM or AM button on the Tuner.
2. Hold down the TUNING/TIMER/DIMMER button (◀ or ▶) for a moment, and then release the button.
- When a station is tuned in, the TUNED indicator lights up.

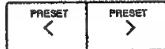
Note:

- The Tuner will tune in the nearest strong station.

Presetting Stations in Memory

You can store up to 40 of your favorite radio stations (FM and AM) in memory, giving you quick, easy access to the stations.

1. Select a band by pressing either the FM or AM button on the Tuner.
2. Press the TUNING/TIMER/DIMMER button (◀ or ▶) to tune in a station.
3. Press the MEMORY button on the Tuner. The "MEMORY" indicator on the Tuner display blinks for 5 seconds.
4. Press the PRESET button (< or >) on the Tuner to assign a number (1-40) to the station, or enter a number (1-40) with the Remote Controller's numeric keypad.



Example:

- To enter 7, press "7".
- To enter 17, press "+10", then "7".
- To enter 20, press "+10", then "10".

- Before using the numeric keypad, press the TUNER button. This will allow you to use the numeric keypad in the Tuner mode.
- If the "MEMORY" indicator has stopped blinking, press the MEMORY button again and repeat step 4.
- If the preset number you chose already has a station assigned to it, the old station will be replaced by the new one.

5. Press the MEMORY button again. This stores that station in memory, with the preset number (1-40) you chose in step 4.

6. Repeat steps 1-5 for each station you want to store in memory with a preset number.

Caution! If the system is unplugged or if a power failure occurs, the preset stations stored in memory may be lost.

Cancelling Preset Stations

1. Press the CANCEL button on the Tuner.

The "CANCEL" light on the Tuner display blinks for 5 seconds.



2. Press the PRESET button (< or >) on the Tuner to select the preset station you want to cancel. If the "CANCEL" light has stopped blinking, press the CANCEL button again and repeat step 2.

3. Press the CANCEL button again. The preset station will be cancelled.

Tuning in Preset Stations

- Press the PRESET button (< or >) on the Tuner to select the preset station you want. The preset station numbers are displayed sequentially each time you press the PRESET button.
- You can also select a station by entering its preset number on the Remote Controller's numeric keypad.
- Before using the numeric keypad, press the TUNER button. This will allow you to use the numeric keypad in the Tuner mode.

FM Reception Modes

There are two FM reception modes: AUTO and MONO.

AUTO: Stations are tuned in with either STEREO or MONO, depending on the FM signal.

MONO: Stations are tuned in with MONO only. This will reduce interference noise of weak stations and make the reception sound better.

1. Press the FM MODE/MUTE button on the Tuner to switch between the AUTO and MONO reception modes.



2. Press the FM MODE/MUTE button on the Tuner to the AUTO mode to receive the station in stereo.

- If a stereo broadcast is received when the FM band is selected, the "STEREO" light will be displayed on the Tuner.
- If the FM Reception Mode is MONO, the "STEREO" light will not be displayed.

Using the Timers

Setting the Clock

The clock will be displayed even when the system is turned off. Pressing the TUNING/TIMER/DIMMER button (◀ or ▶) will switch between two brightness levels for the clock.

1. Press the **CLOCK ADJUST** button on the Tuner.
The hours digits blink.



2. Press the **TUNING/TIMER/DIMMER** button (◀ or ▶) to set the hours digit.



- Press the ▶ button to increase the hour, and press the ▲ button to decrease the hours.
- To enter a new hour digit, press the CANCEL button and repeat step 2.

3. Press the **MEMORY** button on the Tuner.



This sets the hour portion of the time.

The minutes digits will blink.

4. Press the **TUNING/TIMER/DIMMER** button (◀ or ▶) to set the minutes digit.

- It's a good idea to set the minutes digits one minute ahead. Then you can start the clock when it reaches the set time exactly (according to the correct time from the TV, radio, or telephone).

- To enter a new minute digit, press the CANCEL button and repeat step 4.

5. Press the **MEMORY** button.

The clock starts as soon as you press the MEMORY button.

Caution! If there is a power failure, or if you unplug the stereo, the clock time will be lost. Repeat steps 1-5 when power is restored.

- Using the **TUNING/TIMER/DIMMER** button to change luminosity of time display by two steps under STANDBY status.
▶ : Increases luminosity
◀ : Decreases luminosity

Setting the Timers

With the timers you can make tape recordings of broadcasts, CD's, or tapes when you're not around. You can also play these music sources at specified times without recording them.

- Use **TIMER 1** and **TIMER 2** record a radio broadcast when you're not home, or late at night when you're asleep.
- Use the **DAILY** timer to record a broadcast that occurs at the same time every day.
- The procedure for setting **TIMER 1**, **TIMER 2** and the **DAILY** timer is the same. You need to tell the system:
 - The name of the timer (TIMER 1, TIMER 2, or DAILY).
 - The time the timer should turn the system on.
 - The time the timer should turn the system off.
 - The source the timer should turn on (Tuner, CD, or Tape).
 - The volume level that should be used during recording or playback.

Note:

- The clock must be set to the correct time for the timers to be effective.

Caution! Do not operate the remote controller when you are programming the timer.

Choosing a Timer

Press the **TIMER 1**, **TIMER 2**, or **DAILY** button on the Tuner to select a timer. This puts the system in the Timer Setting mode. The information that the system expects next will blink on the display.

Setting the Start Time

1. Press the **TUNING/TIMER/DIMMER** buttons to set the hour that the system will turn on.

The ▲ button makes the hour number decrease, and the ▶ button makes the hour number increase.

2. Press the **MEMORY** button.

This stores the hour portion of the start-time in memory.



3. Press the **TUNING/TIMER/DIMMER** buttons to set the minute.

4. Press the **MEMORY** button.

This stores the minute portion of the start-timer in memory.

Setting the Stop Time

1. Press the **TUNING/TIMER/DIMMER** buttons to set the hour that the system will turn off.

2. Press the **MEMORY** button.

This stores the hour portion of the stop-time in memory.

3. Press the **TUNING/TIMER/DIMMER** buttons to set the minute.

4. Press the **MEMORY** button.

This stores the minute portion of the stop time in memory.

Selecting the Source

1. Press the **TUNING/TIMER/DIMMER** button to select a source.

Repeatedly pressing the ▶ button displays the sources in the following order:

Display

TUNER

TUNER TIMER REC

CD

TAPE

--- TIMER REC

What It means

Plays from whichever source was used just before turning off the system

Plays FM or AM broadcast

Records FM or AM broadcast

Plays a CD

Plays a tape

Records from whichever source was used just before turning off the system

Note:

- If you choose an FM or AM radio station as the source, select the preset station by pressing the **PRESET** button on the Tuner.

2. Press the **MEMORY** button.

This stores the source to play or record in memory.

Setting the Volume

1. Press the **TUNING/TIMER/DIMMER** button to select a volume level.

Repeatedly pressing the ▶ button displays the volume levels in the following order.:

Display

VOL -----

VOL -- 0

VOL -- A

VOL -- B

VOL -- C

What It means

Volume set to the level used before shut the power off.

Volume off

Volume barely on

Volume at about a 1/4 turn of the volume knob

Volume at about a 1/3 turn of the volume knob

Note:

- If the volume knob has already been turned half a turn or more when you set the volume level, you may not be able to set it to volume position 0, A, B, or C correctly.

2. Press the **MEMORY** button.

This stores the volume level for timed playback or recording in memory. To change your selection, press the **CANCEL** button and enter a new value.

Starting the Timer

Press the **Timer** button to start the timer. The timer you chose should light on the display.

Note:

- If the timer light does not light, the timer was not set properly, and you need to set the start time again.

To change your selection, press the **CANCEL** button and enter a new value.

Turning the System Off

Press the **POWER** button on the amplifier to turn the system off.



- The system is now programmed to turn on at the preset start-time, and play or record until the stop-time.
- It will record or play the preset source at the preset volume level until the stop-time is reached.
- If you turn the system on before the start-time, the timer will still operate as programmed at the start-time.

Resetting the Timers

To reset a timer, press the button (TIMER 1, TIMER 2, or DAILY) on the Tuner twice. Now the timer is set again and will use the same start-time, stop-time, source, and volume level as before.

Setting the Wake-Up and Sleep Timer

You can set a timer so it turns on to wake you up or turns off when you go to sleep.

Setting the Wake-Up Timer

The wake-up timer serves as an alarm clock. It turns the system on after a programmed time lapse and plays the source that was used before the system was turned off. You can set a wake-up time from between 5 minutes and 12 hours.

1. Press the **POWER** switch on the amplifier so it is off.

2. Press the **WAKE UP/SLEEP** button on the Tuner.

This tells the system that you are going to set the wake-up time.

3. Press the **WAKE UP/SLEEP** button repeatedly until the desired wake-up time appears.



- Each time you press the **WAKE UP/SLEEP** button, the wake-up time lapse changes in the following order:

→0:05→0:10→0:15→0:30→0:45→1:00→1:30→2:00→3:00→(every hour)→12:00→(back to the beginning)

- If you make a mistake, press the **CANCEL** button on the Tuner and enter a new wake-up time with the **WAKE UP/SLEEP** button.

The system will now turn on after this time lapse.

- The wake-up timer has priority over TIMER 1, TIMER 2, and the DAILY timer.

This means that if the start-time for one of the timers occurs before the wake-up time, the system will wait until the wake-up time to turn on.

Note:

- If CD is the source that will be used, playback begins with the first track.

Setting the Sleep Timer

The sleep timer is used to turn off the system after a specified time lapse. With this timer you can fall asleep listening to music, knowing that the system will shut off automatically and not stay on all night. You can set the sleep timer to turn the system off from between 5 minutes and 2 hours.

1. Press the **POWER** switch on the Amplifier so it is on.

2. Start the source you want to listen to.

3. Press the **WAKE UP/SLEEP** button on the Tuner.



This tells the system that you are going to set the sleep time.

4. Press the **WAKE UP/SLEEP** button repeatedly until the desired sleep time appears.

Each time you press the **WAKE UP/SLEEP** button, the sleep time lapse changes in the following order:

→0:05→0:10→0:15→0:30→0:45→1:00→1:15→1:30→1:45→2:00→(back to the beginning)

- If you make a mistake, press the **CANCEL** button on the Tuner and enter a new sleep time with the **WAKE UP/SLEEP** button.

The system will now turn off after this time lapse.

- The sleep timer has priority over TIMER 1, TIMER 2 and the DAILY timer.

This means that if the stop-time for one of the timers occurs before the sleep time, the system will wait until the sleep time before turning itself off.

Checking the Remaining Time

After setting the wake-up or sleep timer, you can check the time remaining until the system turns on (wake-up time) or shuts off (sleep time).

Press the **WAKE UP/SLEEP** button.

The remaining time is displayed for 5 seconds. Then the clock time appears again.

Adding More Time

If you want more time before the wake-up timer turns the system on (or the sleep timer turns the system off), follow these steps:

1. Press the **WAKE UP/SLEEP** button.

The remaining time is displayed for 5 seconds. Then the clock time appears again.

2. Press the **WAKE UP/SLEEP** button again before the clock time is displayed.

- Keep pressing this button until the desired additional time is reached.

Now the system will wait until the added amount of time until turning on or shutting off.

Cancelling the Time Setting

If you decide you don't want the system to wake you up or play music while you fall asleep, you can turn these timers off.

1. To cancel the wake-up timer, press the **POWER** button on the Amplifier.

This turns the power on.



2. To cancel the sleep timer, press the **POWER** button on the Amplifier.

This turns the power off.

Using the Remote Controller

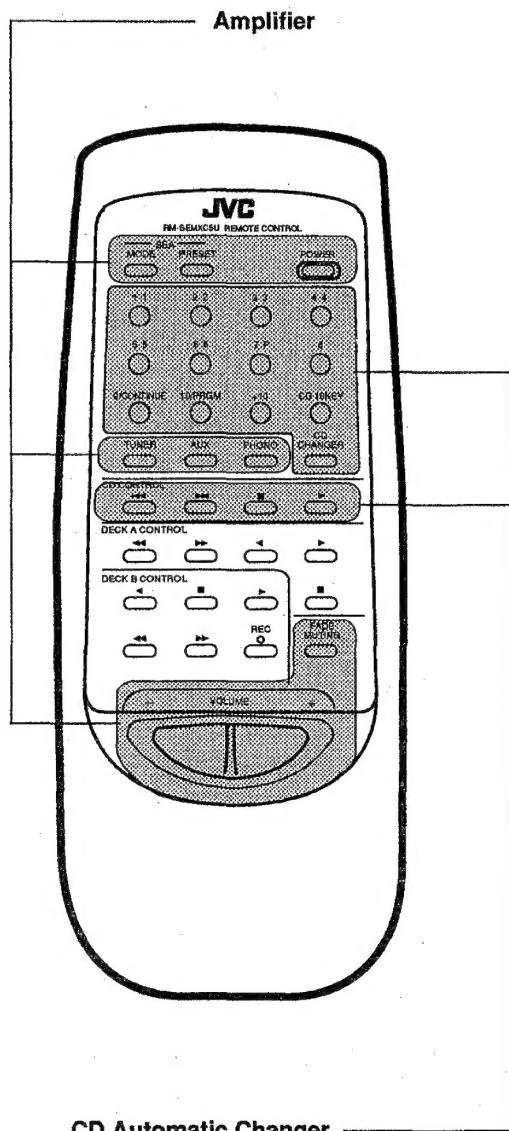
Operating the Remote Controller

You can use the Remote Controller to operate the system without leaving your chair. You can use it up to a distance of 23 feet.

Point the Remote Controller at the remote sensor on the Amplifier.

Note:

- When the Tuner is selected as the source, and Cd OFF is displayed, only the PLAY button on the Remote Controller can be used. To use other buttons on the Remote Controller (for programming and other operations), select CD with the SOURCE SELECTOR, or press the CD PLAY button on the Remote Controller first.

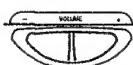


Amplifier

Turn on the main unit



Adjust volume level



Gradually reduce the volume to zero



Set the SOURCE SELECTOR of the amplifier to TUNER



Set the SOURCE SELECTOR of the amplifier to AUX/VIDEO



Set the SOURCE SELECTOR of the amplifier to PHONO



Select the SEA MODE



Select the SEA preset pattern

CD Automatic Changer

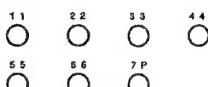
Play a CD



Stop playback of a CD



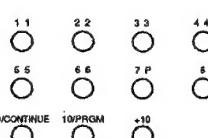
Set the numeric keys to the DISC mode



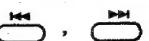
Select the Disc No.



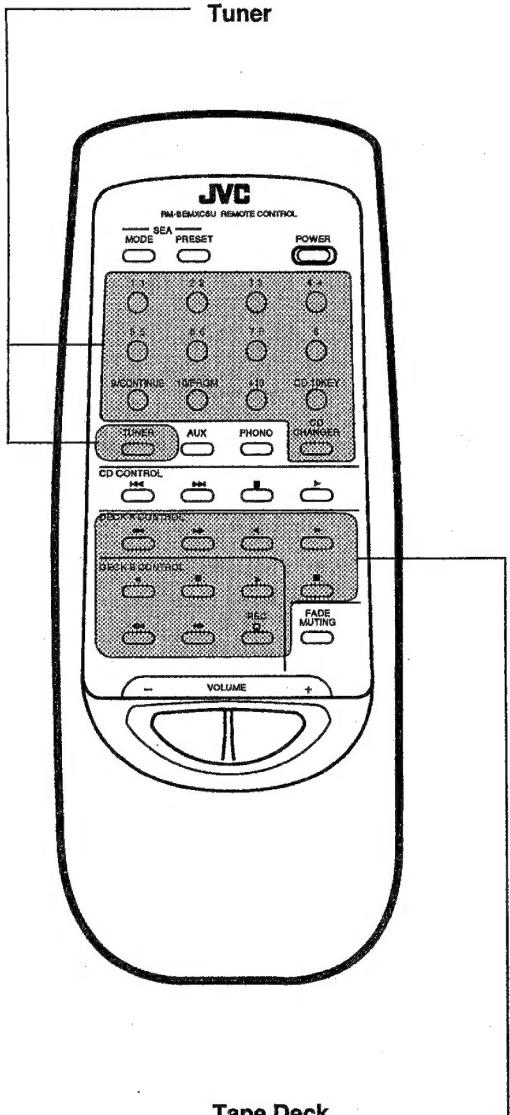
Place numeric keys in CD mode



Select track number



Scanning through the track number



Tape Deck

Change the PLAY MODE of the CD Automatic Changer to CONTINUOUS mode after press the CD CHANGER button

B/CONTINUE

Change the PLAY MODE of the CD Automatic Changer in PROGRAM mode after press the CD CHANGER button

10/PRGM

Tape Deck

DECK A

Play a tape in forward direction



Play a tape in reverse direction



Stop playback



Fast forwarding or fast rewinding



DECK B

Play a tape in forward direction



Play a tape in reverse direction



Stop playback



Fast forwarding or fast rewinding



Recording in forward direction



Recording in reverse direction

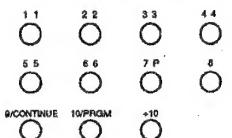


Stopping recording



Tuner

Selecting Tuner mode



Selecting a preset station

Note:

- Where "+" is indicated, press and hold the first button illustrated, then press the second.

Troubleshooting

Symptom	Possible Cause	Action
No sound is heard.	Speakers are connected incorrectly. (See "Connecting the System Component")	Re-connect speakers
Impossible to record.	Tape tabs are broken out.	Cover tabs with adhesive tape.
Interference during broadcast.	Antenna is disconnected. The loop antenna is too close to the system.	Re-connect the antenna securely. Change the position and direction of the loop antenna.
CD Sound is discontinuous.	The CD is scratched or stained.	Clean or replace the CD.
The Remote Controller cannot be operated.	There is an obstruction blocking the remote sensor on the amplifier. The batteries of the Remote Controller are weak.	Remove the obstruction. Replace the batteries.
The magazine does not eject when the EJECT button is pressed.	The power is off. The magazine has not been inserted correctly.	Turn on the system. Push the magazine all the way in and try pressing the EJECT button again.
A selection on a CD was not played.	The CD is in the tray upside down.	Put the CD in the tray with the label side facing up.
Operations are disabled.	The built-in microprocessor may malfunction due to external electrical interference.	Unplug the system, then plug it back in.
The cassette holder cannot be opened.	The system was turned off because the timer was operated while the tape was running.	Turn on the system.

Specifications

Double Cassette Amplifier

AMPLIFIER SECTION

Output Power

**30 watts per channel, min. RMS,
both channels driven into 8
ohms, from 40Hz to 20kHz with
no more than 0.9% total harmonic
distortion.**

Total Harmonic Distortion at Half-Rated Power

0.07%

Input Sensitivity/ Impedance (1kHz)

AUX/VIDEO
PHONO

Pre-programmed SEA settings

250mV/47 k ohms

3mV/47 k ohms

51 (5 modes x 10 patterns + FLAT mode)

CASSETTE DECK SECTION

Frequency Response

CrO₂:
Normal:

Wow and Flutter (WRMS)

Dimensions (W x H x D)

Weight

30 - 16,000Hz

30 - 15,000Hz

0.09%

10-7/8 x 7-1/4 x 12-5/16 inches
(275 x 183.5 x 312 mm)

12.3 lbs

(5.6 kg)

CD Automatic Changer/Tuner

CD AUTOMATIC CHANGER SECTION

CD capacity

7 discs

Dynamic Range

96 dB

Signal-to-Noise Ratio

102 dB

Wow and Flutter

Unmeasurable

TUNER SECTION

FM

Tuning range

87.5 MHz - 108.0 MHz

Usable Sensitivity

0.95µV/75 ohms (10.8dBf)

Signal-to-Noise Ratio

(IHF-A Weight)

MONO

STEREO

AM

Tuning range

530 kHz - 1,710 kHz

Dimensions (W x H x D)

10-7/8 x 7-1/4 x 12-1/4 inches

(275 x 183.5 x 311 mm)

Weight

9.3 lbs

(4.2 kg)

General

Power Requirements

AC 120 V ∼ 60 Hz

Power Consumption

105 W

Accessories

FM Antenna Cable 1

AM Loop Antenna 1

MAGAZINE 1

Remote Control Unit 1

Batteries 2

(UM-4/AAA (24F)/R03)

Design and specifications subject to change without notice.